

## **Supplemental Material to:**

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**Ineffective delivery of diet-derived microRNAs  
to recipient animal organisms**

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## **Supplementary Data**

### **Ineffective Delivery of Diet-Derived MicroRNAs to Recipient Animal Organisms**

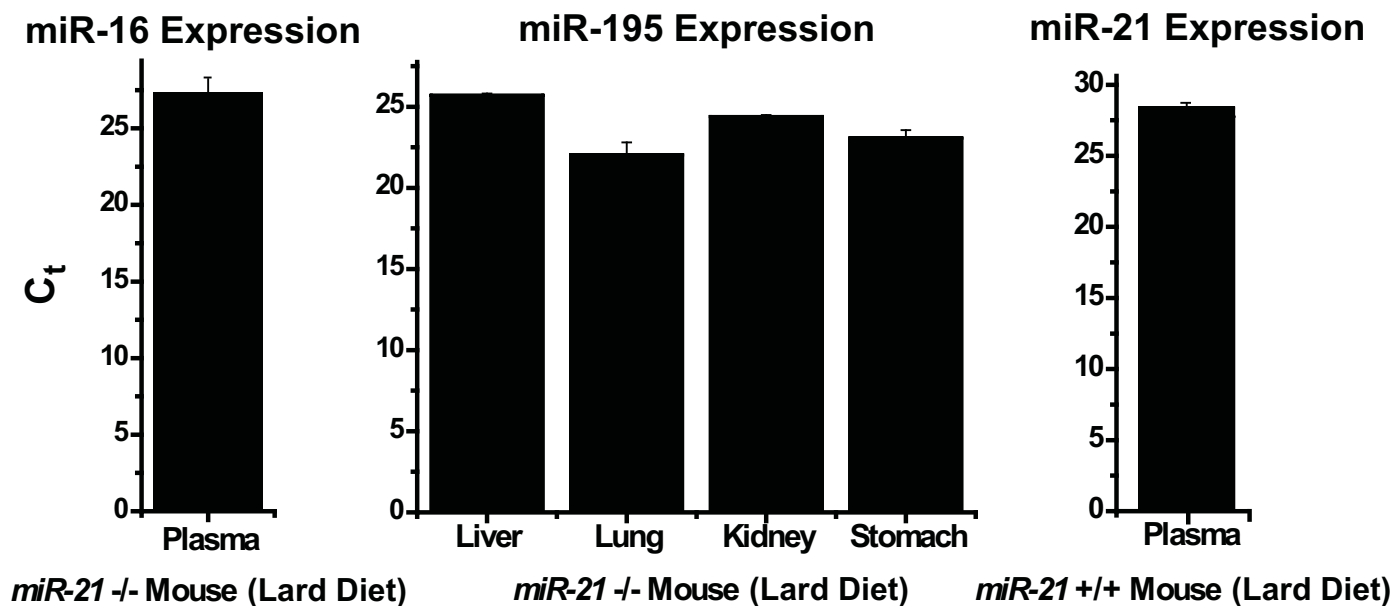
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## Supplementary Figure Legends

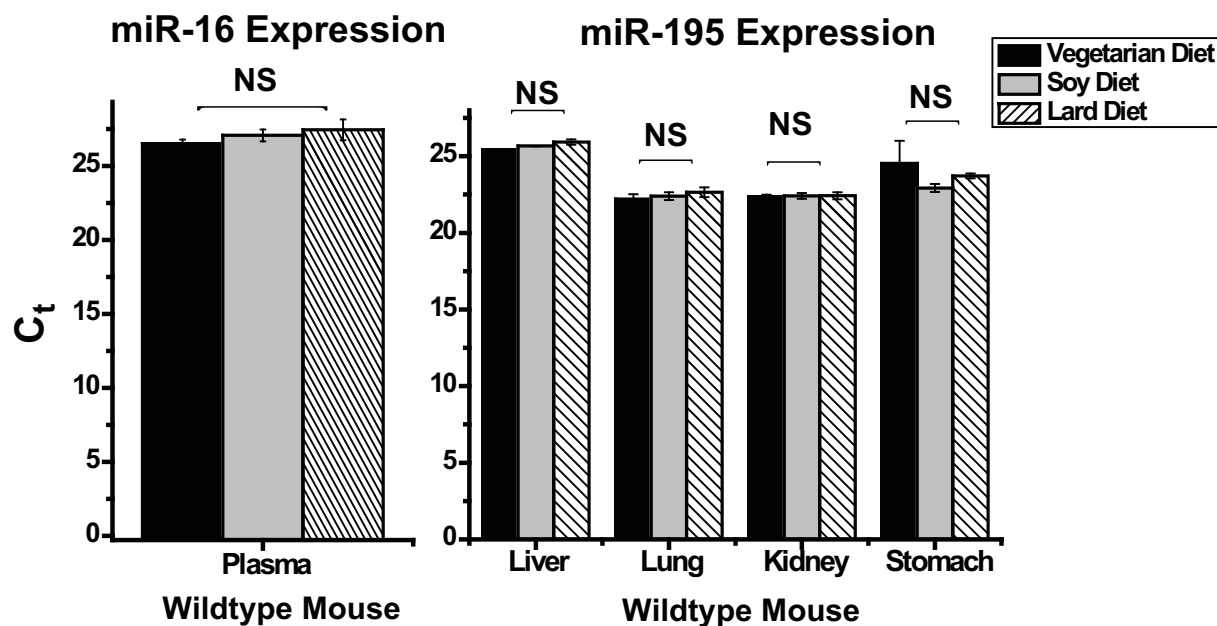
**Supplemental Figure 1. Consistent expression of endogenous miRNAs in plasma and organ tissue of mice and honey bees fed a variety of diets.** (A) After ingesting a lard diet replete with miR-21, *miR-21* <sup>-/-</sup> recipient mice displayed consistent expression of miR-16 in plasma (left graph) and miR-195 in organ tissue (middle graph) (N=6 mice per group). Additionally, wildtype mice (*miR-21* <sup>+/+</sup>) displayed consistent expression of miR-21 in plasma (right graph). (B) After ingesting vegetarian (black bar), soy (gray bar), or lard (hatched bar) diets, wildtype recipient mice displayed consistent expression of miR-16 in plasma (left graph) and miR-195 in organ tissue (N=5 mice per group). (C) After ingesting unprocessed avocado, wildtype recipient mice displayed expression of miR-16 in plasma (left graph) and miR-195 in organ tissue (N=4 mice). (D) Consistent expression of  $\beta$ -actin in the abdominal tissue of recipient honey bees (N=3 nurses; N=4 foragers). In all panels, gene expression is expressed as “real time” cycle number ( $C_t$ ). Error bars reflect SEM; \* signifies  $p < 0.05$ ; NS signifies  $p \geq 0.05$ .

# Supplemental Figure 1

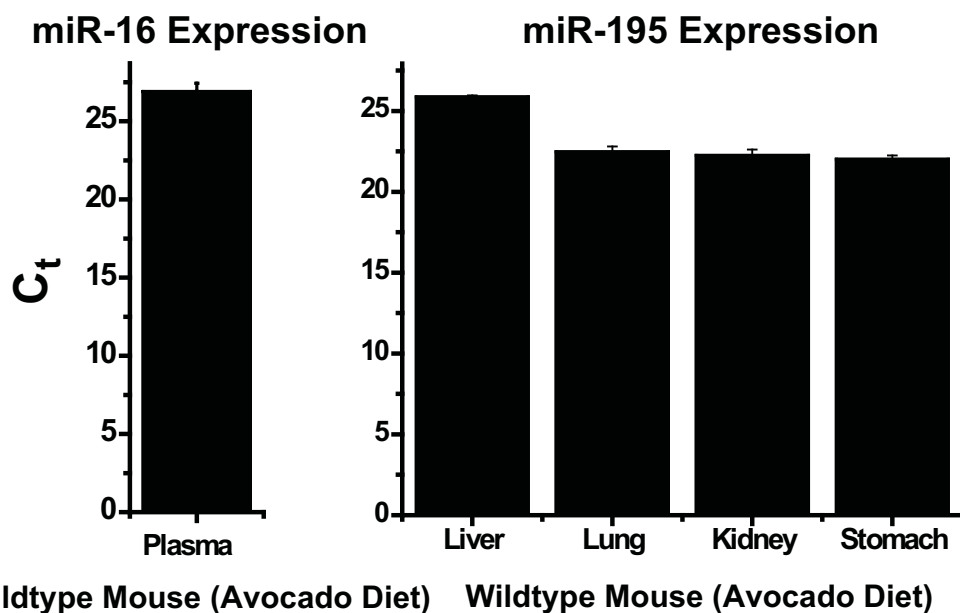
**A**



**B**



**C**



**D**

